

The on-road mobile emission estimates for Baja California, Mexico impact Southern California air quality and should be re-evaluated. The current approach uses MOVES-Mexico which has been adapted from the U.S. EPA Motor Vehicle Emissions Simulator (MOVES) model for Mexico. Some of the default fleet characteristics may not accurately reflect the real-world fleet characteristics for the municipalities that border California. The current approach to modeling heavy duty vehicle emissions in MOVES-Mexico uses U.S. default emission rates aged to align with the regulations in Mexico which tend to lag behind US standards. CARB is requesting proposals to update the fleet characteristics (both light and heavy duty) of the northern municipalities of Baja California: Tijuana, Tecate, and Mexicali. The fleet characteristics would include age distribution, model year distribution, and fleet mix. In order to obtain real-world data on fleet mix, a contractor could collect real world fleet characteristics in Tijuana, Tecate and Mexicali through either survey or use of advanced technologies such as license plate readers. This data would be used to develop and improve MOVES-Mexico inputs. CARB also has an interest in any temporal and spatial patterns of vehicle activity that could be extrapolated from any of the data used to develop the fleet characteristics and emission rates. These new data would be evaluated against current spatial and temporal surrogates used in air quality modeling.